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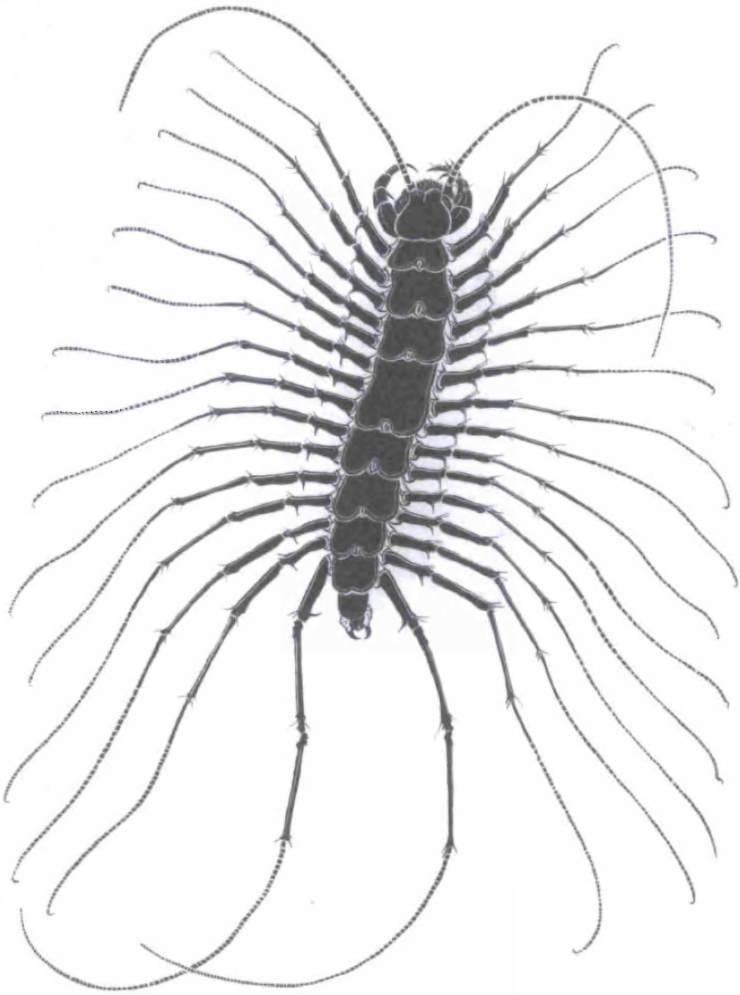

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THE COVER

Kath White, Newcastle University, was awarded a prize at Hobart in the AES Insect Illustration competition for this drawing of a centipede.

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NOTICE

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COPY DEADLINE FOR SPECIAL ICE2004 ISSUE

Material for the ICE2004 Special Issue should reach **Tish Silberbauer** tsilberb@bio.mq.edu.au by **Friday 25 JUNE 2004**.

Please submit text as .rtf files, and pictures as 300dpi .jpg files.

EDITORIAL

This issue of our Society news bulletin is going to press before the one from three months ago has hit your desk. *Myrmecia* is prepared and printed in Canberra, but the *Australian Journal of Entomology*, with which our Bulletin is distributed, is now printed in Singapore. Thus the copies of *Myrmecia* that were printed and delivered to the distributor in Melbourne in February were sent to Singapore to be packaged and sent to Perth before being mailed to you. Unfortunately, technical problems in the production of *AJE* arose at the printer appointed by Blackwell, with resultant delays. I cannot say if this failure to deliver the previous issue has led to a fall in enthusiasm by our readers and Councillors, but the present issue of *Myrmecia* is noticeably thin, with no reports from some of our largest groups of members. I sincerely hope that you-all are just too busy helping to make the greatest venture ever undertaken by our Society – ICE2004 – a brilliant success in August.

The cost of disseminating information in entomology continues to increase. You will note that page charges in AJE are now AU $55 per published page, with no free reprints except a .pdf copy. This is a very heavy tax on the budgets of research workers – particularly when some organisations in Australia are reported not to pay such charges for their employees. Similarly expensive is the new book on Australian water bugs – the price from CSIRO in Australia being considerably higher than from the original publisher in Denmark (see New Books). Costs of production are undoubtedly high, although these can be constrained to some extent through the use of desk-top publishing methods to prepare copy. Thus the new book on *Acacia* thrips evolution that is indicated on page 17 of this issue was sent to the printers by ABRS as a single .pdf (colour plates included). But economies of scale are virtually impossible in entomology, except with successful text-books. Some of us are now using electronic journals such as *Zootaxa* to achieve a wider dissemination of information, but to survive even they need orders for hard copies from your libraries. Google is a wonderful tool – but it is no substitute for a book on the shelf!

Assuming that there are no problems with printing

and distributing AJE, this copy should reach you in time for you to consider putting a note about your work into our Special Issue for ICE2004. There are lots of interesting things entomological going on "out there" – please share them with your colleagues and the thousands of overseas entomologists that are coming to Brisbane in August. Send your thoughts and notes by **25 June** to **Tish Silberbauer** at <lsilberb@metz.une.edu.au> .

LAM

OBITUARY

Don Scambler

12 viii 1920 - 8 xii 2003

Don Scambler was a rare breed of man – a thorough gentleman, with a passion for learning and nature, and with the ability to bring out the best in those around him. He died on 8 December 2003 after struggling with his heart and other ailments for some years.

Don had spent many years working in applied entomology, principally for Shell Chemicals, and was responsible for the introduction of DDT into Western Australia for the control of weevils in apple orchards. This might sound in poor taste these days, with DDT banned because of its long term environmental effects. However, in the 1940s and 1950s there was no method of controlling many pests and DDT was like a miracle cure-all. Don told of the time he painted the trunks of apple trees in an orchard with DDT and was amazed to find the ground around each tree black with ankle-deep drifts of beetles next morning. Don also served Australia in the Pacific region during WWII. His contacts brought him invitations to join collecting trips to Belize and New Caledonia.

Following retirement, Don became an Honorary Research Fellow at the Australian Museum in Sydney and started working on the taxonomy of beetles. He had a gift for identifying those tiny little beetles, like Psilidae and Clambidae, that nobody else wanted to sort out, but also developed his interest in Cerambycidae. He published on some of the most difficult longicorn genera and was still working on this group when he died. Don was also the first Honorary Research Associate of the NSW Agricultural Scientific Collections Trust.

Don served on the Council of the Entomological Society of New South Wales as Vice President (1985-1987), Business Manager (1981) and Councillor (1984).

After moving from Sydney to Ballina in 1987, Don formed an association with the University of Queensland and continued curatorial work on their collections during his numerous visits, again tackling the unsorted micro-coleoptera.

Don had a keen and receptive mind and took great interest in the work of those around him. He loved a good scientific discussion, and enjoyed it even more when his firm views met fierce opposition. He was an ardent sceptic (a long time member of the Australian Sceptics) and took a very down to earth view of religion and those who promoted it. Despite philosophical differences with his father, who was a Church of Christ minister, it was his father who introduced him to classical literature and to the world of nature as seen down a microscope.

Above all else, Don was a master of the English language. He loved words and their meanings and origins and read profusely throughout his life. In his later years he also pursued his love of classical greek literature and even taught himself some ancient Greek. He found television a mindless waste of time (except for a devotion to sport) and would much rather have had a good argument over (even about) a bottle of red. I recall a nightlong debate that John Macdonald and I had with Don during a weekend visit to Sydney University's Warrah Sanctuary at Pearl Beach about modern classical music, religion and the meaning of life, interspersed with regular visits to the insect light to see what had come in. Don went home when we ran out of wine.

He was also outspoken against pretension in all its forms. Perhaps this is because his education in science, following a period at university in Melbourne, was achieved primarily through books and through his own efforts late into the night.

Don was seriously affected by the death of his beloved wife Beth in 1993 and his entomological research effort declined somewhat after that time, but he never lost his interest in language and fired off regular, beautifully worded, epistles to his local paper and to the Sydney press when he felt matters needed to be put into the right perspective.

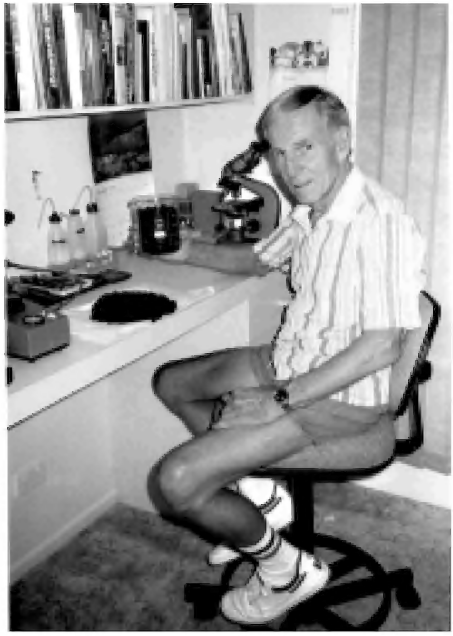
One by one, we are losing our older style gentlemen and the world is poorer for their passing.

Murray FLETCHER

Publications by DJ Scambler

1989. A Revision of Genus *Psilomorpha* Saunders (Coleoptera: Cerambycidae: Cerambycinae). *Invertebrate Taxonomy*: **3**:163-173.

1993. Nomenclatural changes in the Calliprasonini (Coleoptera: Cerambycidae: Cerambycinae) with



reinstatement of the Stenoderini. *Journal of the Australian Entomological Society* **32**: 338.

1993. *Ischnauchen*, a new genus for *Aphiorhynchus costatus* McKeown (Coleoptera: Cerambycidae). *Journal of the Australian Entomological Society* **32**: 193-195.

ABRS News and Developments

Good news of relevance to entomologists comes from Australian Biological Resources Study on several fronts: new groups added to our online database, the *Australian Faunal Directory* (AFD); one recently published and one pending faunal publication; the *Flora of Australia* online newly available on the ABRS website; and the establishment of the Australian GBIF participant node.

Groups newly available on the AFD are the salticid spiders (compiled by Barry Richardson & Marek Zabka); coccoidea (data derived from Scalenet, data entry by Keith Houston); oecophorid moths (based on the checklist of Nielsen *et al* 1996, updated by Ted Edwards, with colour images for many species supplied by Len Willan); buprestid beetles (data from the published *Zoological Catalogue of Australia*, author Chuck Bellamy); and chalcidoid and mymarommatoid wasps (compiled by John LaSalle). What's more, most of the names in the AFD are now accessible via standard web search engines such as *Google* and *Yahoo* or you can find them through the ABRS web address at www.deh.gov.au/biodiversity/abrs/online-resources/abif/fauna/afd/

Well over 60,000 valid species and subspecies names of animals recorded for Australia are now available through the AFD, and with the names, usually a considerable amount of nomenclatural and other data as well. The approach to gathering this information has changed in several critical ways over the past two or three years. Firstly, we are finding that with greater demands for data of the kind we have on the AFD, other bodies are interested in collaborative projects to target particular groups. Thus, we have been able to set up partnerships with Plant Health Australia through the Department of Agriculture, Fisheries and Forestry (DAFF), with other sections of the Department of the Environment and Heritage (DEH), and even with industry bodies. In addition, a number of ABRS' grantees have accepted provision of data for the AFD as a condition of award of their grant, and the first of these databases are now being supplied to ABRS.

But one of the most pleasing recent developments has been the number of database contributors who have taken on board the task of regular updating of their databases and providing these to ABRS, cost free. This was a dream in the early days of the ABRS faunal databasing project, and is now being realised to some extent. ABRS is very pleased to provide bonafide contributors with copies of the files, edited to the online standard, for updating. This form of partnership is the ideal way for the system to work, necessitating minimal additional editing each time an updated file is supplied.

But not all ABRS effort on the fauna is devoted to online publication. A new book, *Evolution of Ecological and Behavioural Diversity: Australian* Acacia *Thrips as Model Organisms*, is now available, published jointly by ABRS and CSIRO Entomology. Authored by Bernie Crespi, David Morris and Laurence Mound, and including a Botanical Annexe by Bruce Maslin on the systematic relationships of Australian *Acacia* species, this book heralds a new direction in delivery by ABRS of information on Australia's fauna (see p. 17). The book takes a monophyletic group of phytophagous insects, explores their adaptive radiation on the *Acacia* species that are their host plants and documents the taxonomy of the thrips; 228 thrips species are

newly described. Thus, the taxonomy of the thrips is the vehicle for a broader study, with an audience reaching beyond the traditional taxonomic community, whilst also serving an archival purpose. Our next entomological publication will be a handbook on Australian Psylloidea by David Hollis. This text also illustrates the approach ABRS is now taking to delivery of faunal information. As well as including all the standard data of the *Zoological Catalogue of Australia* series (but with citation of references in a more standard mode), this text includes a key to genera, expanded information on general biology, morphology, host utilisation, predators (including parasitoids), a summary of economic significance both as pests and as biocontrol agents and a useful bibliography. ABRS expects to collaborate in further projects like these, helping to make available significant works on groups targeted to particular audiences.

Returning to web delivery, many entomologists who work on phytophagous insects will be pleased to hear the *Flora of Australia* online is now accessible through the ABRS ABIF-Flora website. At present not all the published volumes are available, but gradually each will be added to the database over the coming years. While most of us like to hold printed books, how often have you searched in a book for something you remember is there, but cannot find again? Now you can search the *Flora of Australia* online for those elusive snippets of information. The keys, illustrations and descriptions are there, and all other data from the printed treatments, and the search options allow querying of data in ways impossible using only the printed volumes. The database will eventually have links to APNI, WIN (What's Its Name) and APII (Australian Plant Image Index). All the nomenclatural information within *Flora of Australia* online has been transferred into APNI, but no links between the two systems currently exist. This will be rectified in the future.

The other exciting news is the development of the ABIF, the Australian participant node of the Global Biodiversity Information Facility (GBIF). This is an outcome of Australia's commitment as a signatory to, and active participant in, GBIF. The Australian participants in GBIF proposed that ABRS should host the 'node'. At present the Australian participant node is only a web page that provides links to three Australian sites that provide data to GBIF. These providers are ABIF (ABRS' AFD data), the Australian National Insect Collection and the Australian Antarctic Division (seabird, penguins, seals census data). In order to search for data in these Australian and Antarctic systems, or indeed data from any other data provider in the world, a link is provided to GBIF's data portal. Other Australian databases intending to join GBIF are also shown on this ABIF web page. Subject to funding, ABRS will develop a portal through which the Australian and Antarctic databases that are registered with GBIF can be accessed and which other relevant information for the Australian node can be given. By the time you read this, the ABIF web page should be active, giving a single entry point to (at least) the AFD, the Australian National Insect Collection and the Australian Antarctic Division's databases. This is just a beginning, the plan being to make the distributed databases such as Australia's Virtual Herbarium (AVH) and the faunal equivalent (the prototype is OZCAM), and the Australian Plant Pest Database available through the ABIF node and GBIF itself.

Alice WELLS
Robyn LAWRENCE

22nd International Congress of Entomology

Brisbane, 15-21 August

Progress towards the Congress continues apace, with some key dates and planning meetings now come and gone.

With the close of early-bird registrations at the end of February over 1200 delegates had registered and that total has increased to over 1700 over the last two months. The Congress Secretariat advises us that this level of interest so far out from the conference means that over 3000 delegates can be easily expected. Registrations from the USA and Japan are particularly strong, but are still weak from Europe and South America. Can we encourage all members of the Society to continue to remind their international colleagues how pleasant Brisbane is in August. For those Society members in southern states who have never visited this fair city at that time of the year, I encourage you also to enjoy the opportunity.

The scientific programme is close to completion (the call for abstracts has closed) and should be on the congress web site by early May. The quality of the paper and poster abstracts is exceptionally high, with the list of invited speakers for symposia reading like a Who's Who of World entomology. Anyone with even a vague interest in insects cannot afford to miss it. Because of the early policy to leave substantial space available for submitted papers, the Congress Organising Committee and Scientific Committee are delighted to be able to say

that all who submitted oral abstracts will be offered a speaking slot.
If you haven't registered yet make sure you do. This is clearly the biggest event ever in Australian entomology and a unique opportunity to see and be seen. That famous international colleague who you've always wanted to meet, there's a fair chance they'll be there: make sure you are as well.

Tony CLARKE
Media & Promotions Committee

AES RECEPTION at ICE – INVITATION TO MEMBERS

The President of the Australian Entomological Society, **James Ridsdill-Smith**, extends an invitation to members to attend the Society's Annual General Meeting and Reception to be held at the International Congress of Entomology 2004 in Brisbane. Please make a note of Tuesday 17th August 2004, at Brisbane Convention and Exhibition Centre: AGM 6.00 pm, AES Presidential Address and launch of the special issue of the Australian Journal of Entomology 6.45pm; AES Reception with drinks and savories 7.00 pm.
All members are encouraged to attend the AGM. ENTRY TO THE RECEPTION IS BY TICKET ONLY. Please reply to the Secretary if you would like to attend the reception and a ticket will be placed in your ICE satchel. Please reply by 30th June 2004 to <Nancy.Endersby@dpi.vic.gov.au> Fax 03 9800 3521.

AUSTRALIAN ENTOMOLOGICAL SOCIETY INC.

Notice Of Annual General Meeting
The 35th AGM of the Society will be held at the Brisbane Convention and Exhibition Centre (ICE venue - room to be advised) at 6:00 pm on Tuesday 17th August 2004 after the day's proceedings of the International Congress.
The *Outgoing Council* meeting will be held on Monday 16th August 2004 at lunchtime in the AES Board Room at the Brisbane Convention and Exhibition Centre (time to be advised).
The *Incoming Council* meeting will be held on Friday 20th August 2004 at lunchtime in the AES Board Room at the Brisbane Convention and Exhibition Centre (time to be advised).

AES EXECUTIVE MEETING #417

9th January 2004
The Treasurer has proposed guidelines for arrears management, and the Registrar-General has approved the updated AES constitution. The second draft publication agreement for Australian Journal of Entomology is being reviewed by the Executive.
Suneel Jethani, Marketing, BPA is organising the design of the promotional flyers for Australian Journal of Entomology. The flyer will differ quite markedly from previous years as it will be larger in size and feature part of the top accessed article for the previous year, and an offer for limited online access as an incentive to subscribe/join the society. It will also promote the benefits of AES membership.
About 120 AES strategic planning questionnaires have been received to date. Report to be compiled shortly.
The executive confirmed the appointment of Geoff Gurr as a Technical Editor of Australian Journal of Entomology on recommendation of the Chief Editor, Assistant Editor and President of the AES.
An approach to the AES has been made from the Royal Entomological Society seeking links and joint benefits for members of both Societies. We hope to encourage such links and will speak with the executives of national entomological societies at ICE in August.
Some recent resignations have been received from long-standing AES members Tom Bellas, Wendy Forno and Aleks Terauds. A letter of farewell from the Society will be written to each of these members.

Membership and Subscription Status
1st January 2004

Type of membership	Number of members	Paid	Suspended
Full	421	201	32
Retired	93	56	3
Student	56	23	6
Overseas	52	17	10
Total	622	297	51
%		52	8

New members:
Dr Tracey Bjorksten, CESAR. Interests: Use of natural enemies in biocontrol and IPM; host response in parasitoid wasps. Postdoctoral fellow on ACIAR-funded project – *Liriomyza huidobrensis* leafminer – developing effective pest management strategies for Indonesia and Australia. Other interests: Local adaptation and the genetics of host use in the parasitoid wasp, *Diaretiella rapae*; The effect of environmental stress on fluctuating asymmetry of an exaggerated sexual trait in the stalk-eyed fly, *Cyrtodiopsis dalmanni* (Proposed: P. Ridland, seconded: V. Traicevski)
Mrs Amy Carmichael, School of Natural Resource Sciences, Queensland University of Technology, GPO Box 2434 Brisbane QLD 4001. Amy completed her Bachelor of Science, majoring in Entomology at UQ in 1998 and Honours in Wildlife Illustration at the University of Newcastle in 1999. In 2000, Amy was employed as a Research Assistant in the Tropical Fruit Fly Research Laboratory at Griffith University. Her main project in this role was the development of a Lucid key: DORSALIS An interactive identification tool to fruit flies of the *Bactrocera dorsalis* complex. At the completion of this project in early 2003, Amy was offered a position as a Research Assistant at QUT. Her current focus in this role is the taxonomy of Opiine braconids of the South Pacific region. Amy is also working on the development of other Lucid keys (Proposed: A. Clarke, seconded: H. Nahrung)
Ms Joanna Hamilton, CSIRO Entomology, ACT. Employed at CSIRO Entomology in June 2000 as a technical officer. Experience in entomology since 2000 includes biodiversity surveys, insect rearing, field ecology, insect collection, insect curation, taxonomy and morphological and molecular phylogenetics of Diptera. First class honours completed in 2003 with a thesis on the pollination of the Australian terrestrial orchid *Pterostylis longifolia* and phylogeny of its Dipteran pollinators (Mycoma, Mycetophilidae). Currently employed on an ABRS funded project to construct an interactive identification key to families of Australian flies using Lucid software integrated with HTML files (Proposed: C. Palmer, seconded: D. Yeates).
Mr Rodney Hutchinson, Highbury SA 5089. As a child, Rodney's particular interest was invertebrates having started a collection complete with glass topped case whilst in Primary School. In his late twenties Rodney joined the Field Naturalists Society of SA and also became an active member of the subsidiary Mammal Club which still devotes its attention to field survey work. His special interest in this area was the detection of bats using the Australian developed high frequency Anabat equipment for which he developed a multi-voltage power unit running on a single wheel chair battery for field use. During the course of field surveys Rodney became increasingly concerned that, often, invertebrates were the only captures and insufficient attention was paid to entomological collecting and taxonomy. Archie McArthur gave an enthusiastic talk to the FNS on ants two years ago that made Rodney realise the limit of current research in this field. Archie was being hampered in his review of the genus *Camponotus* in not having a regular assistant to process general accessions of Formicidae so Rodney volunteered (having retired from the SA Public Service). Rodney is currently Vice President of the Field naturalists Society of South Australia and a volunteer on myrmecology with Archie McArthur in the Entomology Section of the South Australian Museum. His particular interest is the genus *Myrmecia*! (Proposed: A. McArthur, seconded: R. Simms).
Dr Tom Chapman, School of Biological Sciences, Flinders University, GPO Box 2100, Adelaide SA 5001, ARC Post-doctoral research fellow. Interests: Evolution of social behaviour in thrips (Proposed: A. Austin, seconded: J. Jennings).
Dr Sassan Asgari, Deparment of Zoology and Entomology, University of Queensland, St Lucia QLD 4072. Lecturer in entomology, University of Queensland. Research interests: insect molecular biology, insect immunity, host-parasitoid interactions, viruses and virus-like particles associated with endo parasitoid wasps (Proposed: M. Zalucki, seconded: G. Walter).
Mr David Sharley, CESAR PhD student La Trobe University - biomonitoring section (Proposed: M. Malipatil, seconded: L. Semeraro).
Ms Shelly Rozario and Mr David Madge, Department of Primary Industries, PO Box 905, Mildura VIC 3502 (Proposed: M. Malipatil, seconded: L. Semeraro).

AES Officers & Regional Councillors

Nominations for election or re-election of Officers and Regional Councillors at the Society's 35th AGM on Tuesday 17th August 2004 should be made on the form provided (see page 18) and should be sent to the Secretary to arrive no later than Tuesday 20th July 2004.

Officers

The President of the Society has held office for two annual terms and is not eligible for re-election.

The News Bulletin Editor has held office for five annual terms and will be eligible for re-election after his sixth annual term in 2005. The Public Officer has held office for three annual terms and will be eligible for re-election after her fourth annual term in 2005. The Vice-President, Secretary and Treasurer have held office for four annual terms and are not eligible for re-election. Positions falling vacant at the 35th AGM 2004 are President, Vice President, Secretary, Treasurer and Chief Editor.

Regional Councillors

Regional Councillors are eligible for re-election for up to three years only. Each of the current Regional Councillors is eligible for re-election.

Representative Councillors

Representative Councillors are elected by the affiliated societies. There is no restriction on term served in this capacity. Current councillors are: E. E. Taylor (Entomological Society of New South Wales), Dr Jenny Beard (Entomological Society of Queensland), Ian Endersby (acting) (Entomological Society of Victoria).

REGIONAL NEWS

AUSTRALIAN CAPITAL TERRITORY

CSIRO Entomology

Many staff members are heavily involved in preparations for ICE 2004, both as organisers and presenters, with the consequent demands on their time. These obligations have been competing with Divisional management matters, such as program planning and budgeting. The ANIC is slowly recovering from the seismic refit that involved much drilling in association with fitting many metal plates and beams to walls and roof. This process required all of the collections and books to be sealed in heavy plastic for several weeks, during which time **Penny Gullan** and **Peter Cranston** visited from California to look at coccids and chironomids. At the same time, **Mary Carver**, **Don Colless** and **Bruce Halliday** were all re-housed in different rooms, together with books and many specimens.

Carol Muir and **Pranish Prasad**, who work in New Zealand for the reference laboratories of MAF at Lincoln and at Auckland respectively, attended a one-week course given by **Laurence Mound**, learning how to distinguish different species of

Pranish Prasad and Carol Muir of MAF, New Zealand seem happy to look at thrips in Canberra

pest thrips. They cheerfully accepted the responsibility of helping to prop-up their instructor at his 70th birthday celebrations.

David Yeates, **Tom Weir** and **Ben Boyd** drove to Bookmark Biosphere Reserve, on the Murray River near Renmark in South Australia, to carry out reconnaissance for future contributions to CSIRO's Water for a Healthy Country 'flagship program'. An ecological project on the role of insects in ecosystem function under various land use regimes is envisaged, with input from the ANIC in areas of taxonomy and trophic relationships.

A current visitor to the Hymenoptera group of the ANIC is **Junichi Kojima** of Ibaraki University, Japan, is working here for six months on polistine wasps. **Marianne Horak** and **Ted Edwards** travelled to Burradoo, in the Southern Highlands of NSW, to bring the Keast moth collection back to Canberra as a donation under the Federal Government's Cultural Gifts Program.

The ANIC's Internet web site is in process of being revamped by **Natalie Barnett** and **Paul Dobson**.

After 36 years of dedicated service to the Entomology Division, **Sil Runko** retired at Easter. Sil distinguished himself in a number of projects, from the Dung Beetle Program to Sheep Blowflies and Bush flies, and for the last 16 years in the Termite Group.

Kim PULLEN

NORTHERN TERRITORY

Northern Australia Quarantine Strategy

A joint Plant Health Training Program was run by the Darwin NAQS team near Dili in East Timor in February. Twenty-two places were offered to Timorese scientists from the Ministry of Agriculture, Fisheries and Forestry, National University of Timor Leste, and the Dom Bosco School of Agriculture to learn techniques of collecting, preserving, curating and identifying plants, plant diseases and insects. One of the aims is to encourage one of these institutions to establish national collections which at present do not exist in East Timor. **Glenn Bellis** met with **Wendy Morgan** (ACIAR) and **Peter Ridland** (Vic) as they passed through Darwin on their way back from Timor. They discussed work being undertaken in Timor and how to best coordinate their activities. Shortly thereafter, **Glenn Bellis** went from trainer to trainee and spent a week learning about the taxonomy of *Culicoides* with **Alan Dyce** in Sydney.

Department of Business, Industry and Resource Development Entomology Section

The Section was saddened by the loss of a former colleague, **Graham Young** who passed away in February. Graham worked with the Section from 1995-2001 as a senior entomologist working on integrated pest management of Asian vegetables and research on termites. He retired in April 2001, purchased a troop carrier and drove to northern Queensland where he spent time bush walking and camping. Graham eventually moved back to Sydney, where he was closer to medical treatment for his long term illness.

Brian Thistleton and **Michael Neal** made two trips to Ti Tree (near Alice Springs) to continue their work on a chemical applied through irrigation lines to control *Mastotermes darwiniensis* and *Microcerotermes* sp. in grapevines. **Heather Wallace** is currently assisting Brian and Michael with life cycle studies on *Conogethes pluto* which is a major pest of ornamental gingers.

Michael and **Megan Hoskins** manned the Katherine Field and Garden Day Display which is an event put on by the Department and other industry groups to cater for hobby growers and home gardeners. Megan is currently on leave in New South Wales after attending a fairly comprehensive training course.

Graham Brown traveled to Sydney in March for an AQIS Operational Science Program Planning meeting. Graham also visited Canberra to do some taxonomic work at ANIC, CSIRO as well as attending a meeting on the AQIS database.

Deanna Chin and **Haidee Brown** have been organising displays for the upcoming Fred's Pass Rural Show as well as other general extension material. A rambutan monitoring poster developed as a joint project with QDPIF and coordinated by **David Astridge** has been printed and will be distributed to growers.

Lanni Zhang has been busy examining Quarantine specimens intercepted from seaports, airports, fishing boats, cargo, and other imported goods. On occasion, Lanni gets to inspect pleasure craft for anything exotic!

Department of Health and Community Services Medical Entomology Branch

The discovery by the Medical Entomology Branch of the dengue mosquito in Tennant Creek from trapping conducted on 17 February has seen a major response by the branch, the Department of Health and Community Services, and other local and interstate organisations and colleagues.

Alice Wells, Carol Muir, Glynn Maynard. Christine Lambkin & Nathalie Barnet doing their best to convince Laurence Mound that life begins at 70

The first team, which drove to Tennant from Darwin, began a survey, public awareness and control program on 22 February, included **Peter Whelan, Gisi Lamche, Jennifer Grigg** and **Jane Carter** of the MEB. They were joined a day later by the WA Health arbovirus group contingent of **Cheryl Johansen, Amber Breeze** and **Sarah Power,** after flying and driving from Perth. Each week has seen a changing team of various officers from MEB, other CDC staff including TB, Aboriginal health, Aids and Environmental Health officers, combining with local Councils to carry on the eradication program. Most of the staff has been working weekends in Tennant to catch homeowners at home.

The effort by the eradication teams and residents of Tennant has been tremendous. Equipment and advice has flowed in readily from colleagues in Queensland, New Zealand, and the National Arbovirus and Malaria Advisory Committee. We are now into the 8th week of an eradication program, with a second round of a house to house spraying and education effort. So far there have been 84 premises with *Aedes aegypti* out of 1020 searched, from a total of 1108 properties. A 12-month program is in preparation to completely eradicate the mosquito and assistance is being sought from the Commonwealth. The next 12-month will be a major project for all the members of the MEB.

Alan Warchot, apart from a stint in Tennant, has just finished a biting insect study of the Darwin Port area with Peter Whelan for an EIS of a new development. This is on top of the organisation of mosquito engineering works for the coming dry season.

Peter Whelan, after two stints at Tennant, attended the face to face meeting of the National Arbovirus and Malaria Advisory Committee in March to report on the incursion of *Aedes aegypti* and request national assistance. Peter also addressed an inaugural Australian Army Environmental Health conference in Darwin on health response in disasters. The Army response was to send two health officers to Tennant to assist the eradication program.

Nina Kurucz and **Leah Stratford** have done a 10-day stint in Tennant, as well as maintaining the routine mosquito monitoring and control operation across the NT. This included a MVE alert in February resulting from the sentinel chicken surveillance program, and responding to the Katherine flooding problems in March.

CSIRO Sustainable Ecosystems

Tracy Dawes-Gromadzki and **Garry Cook** completed a field trip to Charters Towers in March, where they sampled soil, vegetation and soil invertebrate species inside and outside a series of stock enclosures. This trip focussed on collecting samples

for stable isotope analyses ($d^{13}C$ and $d^{15}N$). This work is focussing on the application of stable isotope signatures to understanding the functional role of soil macro-invertebrates in capture and retention of water and nutrients in the landscape, as part of their Tropical Savannas CRC project and as a contribution to the "Water for a Healthy Country" CSIRO Flagship. Tracy and Garry are also in the process of establishing a study that will focus on the use of DNA marker technology as a tool to quantify the activities of specific soil macro-invertebrate taxa that have key roles in soil properties that affect pasture management.

The Territory Wildlife Park Fire Project continues to evolve, with baseline sampling for invertebrates and vegetation in full-swing, and the appointment of **Kate Parr** as a Bushfires CRC-funded post-doc position. Full-funding for the first year of the Yellow Crazy Ant (*Anoplolepis gracilipes*) Project in Arnhem Land is now coming to fruition for **Ben Hoffmann**. This project is to start at the end of April. The first field trip will involve a German student from the University of Würzburg who will investigate the ecological impacts of the ant across a range of vegetation communities (dry savanna to rainforest), demonstrating the ants devastating impacts on biodiversity. Concurrently, the mapping of the extent of infestations will begin, with first poisoning expected in June.

Tracy DAWES-GROMADZKI

QUEENSLAND - NORTH

DPI - Emerald

Allison Shields from Emerald DPI advises that silverleaf whitefly pressure was relatively low throughout most of the cotton season, and initially it appeared that the population would not reach economic threshold. Heavier than expected heliothis pressure throughout the season resulted in the use of many 'hard' insecticides, thus causing the rapid build up of silverleaf whitefly. The end of the cotton season has seen these large populations of whitefly migrating off cotton and onto other crops such as grains and pulses. A Research Review will be held in May to present our silverleaf whitefly research findings to stakeholders.

AQIS - Mareeba

Judy Grimshaw and **Barbara Waterhouse** at NAQS Mareeba are well into the survey season. So far this year surveys have been completed to parts of the Torres Strait, several communities along the western seaboard of Cape York Peninsula, some 'Gulf' communities and to the Cooktown area. The wet season has been wetter than in several previous years "more like a proper wet season" and this has caused some problems with transport in the area, but nothing that our intrepid travellers can't handle. In the next few weeks, surveys will include the Weipa area and the Bamaga area. In addition to the 'regular' NAQS surveys, Barbara Waterhouse has also surveyed several of the army sites around Townsville as follow up from the ADF's involvement in East Timor (checking for weeds) and the nickel-ore unloading area for Yabulu refinery. Judy plans a brief visit to Melbourne in mid April and will call in to look at the new insect exhibit at the Museum, as well as meet up with **Ken Walker**.

Kerrie Huxham reports that 61 target fruit flies have been detected in the NAQS traps in Torres Strait so far this season (Dec 2003 - March 2004). Of these, 43 were Asian Papaya fruit fly (*B. papayae*), 17 were New Guinea Fruit fly (*B. trivialis*) and 1 was Melon fly (*B. cucurbitae*). In response to these detections 30 extra response traps are in situ, weekly baitspraying occurs on 9 islands and male annihilation blocks are in situ on 6 islands. The detections have been fewer than in the same period last season, but have been spread over the Eastern and Central island groups whereas last season the Central islands were the main focus of detection of *B. papayae*. In March Kerrie was invited to participate in an international fruit fly workshop held in Kuala Lumpur. The AUSAID funded project delivered through the International Fruit Fly Research Centre at Griffith University and Dept of Agriculture, Fisheries and Forestry drew participants from 10 Asian Nations.

DPI – Cairns

Jane Royer has been busy processing samples from the summer Cape York survey to the northern peninsula area of Cape York. There were no new detections, though red banded mango caterpillar, *Deanolis sublimbalis*, continues to slowly spread from the Somerset area. From the continuous pattern of its movement, this pest appears to be moving through flight dispersal rather than being transported in mango fruit. Quarantine restrictions are currently in place on Cape York. **Bruno Pinese** is undertaking research into RBMC biology in PNG and HortResearch New Zealand will soon be commencing work on pheromone attractants.

A very informative Crocodile Awareness Training course was presented by the Environmental Protection Agency for Northwatch and NAQS staff. The risk of saltwater crocodile attack is a real is-

AQIS Entomologist Kerrie Huxham in the field in Kuala Lumpur with delegates from the International Fruit Fly workshop held in March

sue for staff surveying the Cape York area for exotic pests when crossing creeks, and for fruit fly monitoring and response staff operating in the Torres Strait who access remote islands by boat. The session was provided by Mark Read, whose research into crocodile biology is funded by Steve Irwin! Much of the information was well beyond "croc common sense" and included distribution (all of Cape York and inland to Julia Creek and Georgetown), nest identification in long grass and their ability to live in small freshwater inland billabongs.

Jane Royer and **Mark Stanaway** visited the Red Imported Fire Ant Control Centre in Brisbane to see the beasties in the wild to enhance fire ant surveillance ability in the north. We had trouble finding any active nests at all, which is a great sign of the success of the control program. Jane also spent time in the RIFA identification laboratory honing her ant id skills on ants found in the southern parts of the state.

DPI – South Johnstone

David Astridge has been busy finishing two final reports 1 HAL funded IPM project called "Management Options for Banana Bunch Pests" and 2. (RIRDC funded) Rambutan IPM Development Phase 1. (Insect monitoring and insecticide screening) and running various IPM workshops.

Scientific Advisory Services, Mourilyan

Richard Piper has been back and forth from Brisbane a lot lately while working on the issue of banana imports from the Philippines for the Australian Banana Growers Council. Numerous meetings with solicitors representing the growers prepared him for cross examination at the Senate Inquiry at Parliament House into Biosecurity Australia's handling of the banana IRA. While in Brisbane he spent a day with entomological consultant, Richard Bull, assisting with a fruitfly trial in custard apples that reminded him there are other crops in the world besides bananas.

BSES - Meringa

Mohamed Sallam, Keith Chandler, Peter Allsopp and **David Calcino** from BSES Limited ran a simulation exercise to test our preparedness in case an exotic sugarcane stalk borer invaded mainland Australia. The assumption was that an exotic borer species is detected in FNQ, and the question was what will everybody do about it? The exercise was attended by **Russell Gilmour** (APHS - QDPI) and **Bonny Vogelzang** (NorthWatch, QDPI), while **Graeme Hamilton** (Chief Plant Protection Officer), **Rodney Turner**, **Clare Duncan** and **Caitlin Jo**hns (Plant Health Australia) were on the phone from Canberra, and **Alan Rudd** (Mossman Agricultural Services) was on the phone from Mossman. The exercise lasted for about an hour and the group concluded that we are well prepared to detect and quickly respond to an incursion of an exotic sugarcane pest or disease, particularly the highly damaging stalk borers. An important outcome of the exercise was that, in case of an incursion, a strategic management group will convene in the area of detection to conduct delimiting surveys and report to a Consultative Committee in Canberra. The management group will be formed principally by DPI and will include members from BSES, AQIS, Canegrowers and Cane productivity service groups.

Jane ROYER
Kerrie HUXHAM

SOUTH AUSTRALIA

Archie McArthur has been busy with his ants in European Museums, examining *Camponotus* types. He was greatly assisted in Berlin by **Frakk Koch**, in Geneva by **Bernhard Merz**, in Vienna by **Stefan Strodl**, in Genoa by **Roberto Poggi** and **Giuliano Doria** and in London by **George Else**.

SARDI

Greg Baker visited IHD, Knoxfield to hear direct from New Zealand entomologist **Graham Walker** of the NZ experience with managing currant-lettuce aphid (*Nasonovia ribisnigri*).

Richard Glatz has completed his PhD and is leaving SARDI Entomology where he has been classifying invertebrates found on weeds and native vegetation on the northern Adelaide Plain. He is moving to CSIRO Health Sciences and Nutrition, also in Adelaide. He completed an Agricultural Science degree in 1999 and was awarded the T.O. Browning medal for entomology. Prior to joining SARDI, Richard demonstrated taxonomy in the university subject Biology and Diversity of insects for four years during which time he undertook his PhD into genes expressed by the *Cotesia rubecula* bracovirus. He has a private insect collection of several thousand specimens, mainly from Kangaroo Island. At CSIRO he will be using an insect virus to produce human cell receptors with the aim of developing diagnostic tools for human disease.

University of Adelaide

Otto Schmidt and his co-workers have found that tolerance to a *Bacillus thuringiensis* formulation in a laboratory colony of the flour moth *Ephestia kuehniella* can be induced by pre-exposure to a low concentration of the Bt-formulation. This discovery is likely to have a major impact on the development of strategies to control insect pests and insect vectors of disease using *B. thuringiensis* endotoxins and baculoviruses.

Andy Deans and **Jim Whitfield** (University of Illinois), and **Lars Vilhelmsen** (Zoological Museum, University of Copenhagen) spent some time with **Andy Austin** and **John Jennings** in January. The trio managed to get in quite a lot of local collecting thanks particularly to **Nick Stevens**.

Glenys WOOD

TASMANIA

Australian Antarctic Division

Penny Greenslade has completed her contracts with the Antarctic Division and spent a little time working with Forestry Tasmania (identifying the Collembola from the Warra-Mt Weld altitudinal transect) and with Tasmanian Parks and Wildlife, before returning to Canberra where she is currently based at ANU.

Forestry Tasmania

Four members of the Queensland FRI Forest Health team visited Tasmania for a week in March to join with **Tim Wardlaw** and **Dick Bashford** in testing forest health surveillance techniques for pests and diseases in eucalypt plantations. **Dick Bashford** visited **Manon Griffiths** and **Michael Ramsden** at FRI in Brisbane as consultant for the establishment of a static trap project in softwood plantations aimed at the detection of exotic timber insects. The project is running in five plantations this season with planned expansion to cover much of the estate next financial year. **Simon Grove** and **Belinda Yaxley** have been assisting LaTrobe Uni honours student **Sarah Nash** with her fieldwork at the Warra long-term ecological research site in southern Tasmania, as have two forestry students

Andy Deans, Lars Vilhelmsen & Jim Whitfield at Belair N.P in January 2004

Rainer Droste and **Jürgen Hauber**, from Albert-Ludwig-University in Freiburg, Germany, who have been visiting FT on overseas work experience. Sarah has been collecting flightless log-dwelling tenebrionid beetles (*Coripera deplanata*) to examine dispersal abilities in relation to current forest management issues.

Queen Victoria Museum and Art Gallery, Launceston

The Zoology section is continuing to attract invertebrate interest. The "Up Close & Spineless" exhibition - introducing invertebrates, which opened last December, has been extended to mid-September. The education programme being offered to schools has proved popular, with some very positive feedback from teachers. A more specialised programme, on 'Feeding in Invertebrates', using the exhibition as a basic resource, is being developed for Term 2. A very successful public lecture on Cephalopods, by **Mark Norman** from Museum Victoria, was presented in the gallery in early April. A specimen of the thought-to-be-extinct Miena Jewel Beetle, *Castiarina insculpta*, was found in February, at Miena at the southern end of Great Lake, on the Central Plateau. This is only the third specimen ever found, the last one in 1965. This specimen is the centrepiece of a small exhibition on threatened species of insects from Tasmania. Active research is continuing on multipedes by **Bob Mesibov**, spiders by **Lisa Boutin**, snails by **Brian Smith**, and ants and dragonflies by **Craig Ried**. In the footsteps, metaphorically speaking, of the late **Bede Lowery**, Craig has been collecting opportunistically in various parts of the state. He collects in particular from nest sites, recording the nature of these sites, presence of reproductive forms etc. In time, a handle on the group to species level is to be hoped for, - and a much bigger collection of ants in QVMAG collections. **Brian S**mith has also been doing work with the Tasmanian Aboriginal Arts Committee on the populations of intertidal molluscs

used in the traditional cultural activity of making shell necklaces on some of the Bass Strait islands.

DPIWE Diagnostic Services (Plant Health Group)

At DPIWE's New Town Laboratories, **Cathy Young** was busy all summer demonstrating the efficacy of methyl bromide fumigation against eggs of codling moth on cherry fruit to an observer from MAFF, Japan. The project involved an endless stream of difficulties with equipment plus the demands in breeding and coaxing thousands of reluctant moths to oviposit on cherry fruit. Cathy is currently writing up the report. **Margaret Williams** almost put aside management of her Animal Health Laboratories in March to focus on the incursion of Currant Lettuce Aphid which has been dealing a severe blow to Tasmanian lettuce growers. **Sandra McDougall** visited Devonport to assist in the response to the aphid incursion. **Lionel Hill** moved the DPIWE pest records to *BioLink* software and finally saw them running online in the Australian Plant Pest Database.

University of Tasmania and CRC for Sustainable Production Forestry

Geoff Allen has ventured overseas with his family on an extended holiday (although he is describing it as a sabbatical) until November. During his time away Geoff is undertaking research with colleagues in Arizona, Vancouver, Zurich and somewhere in Japan. Given that he also plans to make it back to Australia for the ICE in August, Geoff is going to have a hectic year. On his days off from writing up his thesis on the parasitoids of the southern eucalypt leaf beetle (*Chrysophtharta agricola*), **Anthony Rice** has been keeping himself extremely busy monitoring mosquito populations for the Sorell Council to ensure the residents of Hobart don't all contract Ross River Virus. He has also been collecting parasitoids of the gum leaf skeletoniser (*Uraba lugens*) for the New Zealand Forest Research Institute and identifying tachinid flies for Forestry Tasmania. **Kate Harrison** is now around 18 months into her PhD on the invertebrate assemblages of different aged *Eucalyptus obliqua*. She has recently completed collecting insects at Warra from traps surrounding different tree wounding treatments, and hence will be sorting through sticky traps for the foreseeable future. **Marie Yee** is enjoying being back in Tasmania after a three month stint in Germany, although she is currently working long hours to complete her thesis on the invertebrate communities of decaying logs from Warra. **Luke Rapley** is also in the final throws of his thesis on *Eucalyptus globulus* leaf chemistry and its variation to insect attack, and hopes to hand it over to the examiners soon.

In the part of the University beyond the CRC, **Yoav Bar-Ness** has had a hectic field season collecting canopy invertebrates at Warra. Animals were collected using sticky traps, hanging flight intercept traps, and bark drift fences from the upper and lower crowns of 16 *Eucalyptus obliqua* trees, each 40-75 metres in height. These spatially explicit methods can be used to test if different regions of the tree crown support different invertebrate fauna, and offer a comparison to recent collections made by canopy fogging, internal wood examination of recently felled trees, and naturally fallen logs on the forest floor. The winter months will be filled with insect identification and data analysis. For more information, please visit <www.geog.utas.edu.au/yoav>. **Sue Baker** has started identifications from the part of her doctoral research that consists of a trial looking at the effectiveness of streamside reserves for terrestrial litter beetles in a clearfell-logging landscape.

Finally, **Dave DeLittle** has recently moved to Hobart (delittle@tassie.net.au) from where he is conducting his Forest Health Consulting business and working part-time at the CRC for Sustainable Production Forestry.

Simon GROVE

WESTERN AUSTRALIA

Tony Postle recently undertook a holiday to St. Petersburg and Helsinki. While not an entomological trip as such - there was certainly a noticeable absence of insect activity in the bare trees and on the snow-covered ground - he DID visit the insect zoo in St. Petersburg's Zoological Museum where one is encouraged to handle all sorts of - inter alia - beetles, grasshoppers, phasmids, mantids and large, hirsuit spiders. He is pleased to report, however, that he saw no trace of termites, borers, death watch beetles etc. in any of the museums, art galleries, cathedrals, palaces, mansions or fortresses he toured, although he was keeping close watch for them. Back at his official duties in Broome, Tony has recorded many species of thrips as new to Western Australia, some not previously known from Australia, and one of these is described in the current copy of AJE.

NEW BOOKS

Australian Water Bugs (Hemiptera-Heteroptera, Gerromorpha & Nepomorpha) Their Biology and Identification. Nils M. Anderson & Tom A. Weir. *Entomonograph* **14**: 1-344.
This book is an introduction to the fascinating world of water bugs with emphasis on the Australian fauna. Water bugs include water striders, water scorpions, water boatmen, and backswimmers, and they are found in many habitats from small, temporary pools to larger ponds and lakes, from small streams to rivers, and from inland freshwater bodies to coastal mangroves, tidal pools on coral reefs, and the surface of the ocean. The Gerromorpha live on the water surface and the Nepomorpha live under-water, but they are all predators or scavengers, feeding on crustaceans and insects, tadpoles and small fish. Important ecologically, they are often beneficial to man, with many species preying on mosquitoes.
Australia's water bug fauna is large and diverse, with 261 described species in 15 families and 54 genera. This fauna is unusual in that about 23% of the semiaquatic species are marine, in contrast to 10% of the world fauna. Moreover, many groups are considered to have originated within Australia, and several forms are important in understanding the evolutionary history of water bugs. This handbook is the first comprehensive identification guide to Australian water bugs. For each genus diagnoses are provided, usually with a habitus figure, an overview of biology, distribution map, and a summary of the more important publications. It has 344 pages, is well illustrated with colour plates and line drawings, but the price in Australia from CSIRO Publishing, Melbourne is $135.00. However, the book is available for 420 DKK – that is approximately 90 dollars plus postage – from the publisher in Denmark <apollobooks@vip.cybercity.dk>.

Insect Development and Evolution. Bruce S. Heming. Cornell University Press, Ithaca & London. US $85.00.
As an entomologist I grew up on a diet of "Imms", "Wigglesworth" and "Snodgrass" – all worthy volumes full of interesting facts. But Robert Snodgrass put his finger on the essential point when he opened his seminal volume with the statement that "The principle value of facts is that they give us something to think about". This new, and long-awaited, volume by Bruce Heming is as critically factual as those of his three illustrious predecessors. However, in combining their knowledge of systematics, physiology and morphology, and then incorporating up-to-date information from genetics and molecular studies, his fact-studded book promotes trains of thought from whatever page at which you start reading. In essence, the book is a summation of 30 or more years of lectures by Bruce Heming to graduate students at the University of Alberta, during which period our understanding of, and technological approaches to, development and evolution have expanded hugely. You can thus read it as a course manual, or you can dip into it wherever a phrase takes your fancy – both ways you will come out intrigued and thinking about how organisms work, or more particularly about how organisms have evolved to work the way that they do. Personally I headed immediately to the chapter on sex determination, which ends with that intriguing question – why are there only two sexes? From there I moved to the excellent summary of parthenogenesis, and thence to the section on developmental constraint in hexapod evolution – both of which being subject areas in which there are so many more questions. However, if you are interested in the organogenesis of skeletal apodemes, or the curious patterns of synchrony of cell divisions after those first few divisions in an insect egg that are readily comprehended by any student, or if you have forgotten the distinction between spermatogenesis and spermiogenesis – then this volume will instruct you and re-ignite your interest. Most importantly, these often complex subjects are treated in clear and lucid English that is a pleasure to read. We tend to think of insects as adults, forgetting or even not considering the immature stages (unless these are actually eating crops). But the life of an insect begins as soon as the egg is fertilised – even such an adult-orientated process as spermatogenesis actually begins very soon after an egg is laid. In producing this remarkable synthesis, Bruce Heming manages to infuse a subject that most of us would consider dry with his own enthusiasm, biological intuition, and erudition. This is a book not to be missed by anyone with serious pretensions to a knowledge of insects – on every page you will find something intriguing. To any student of development it must become a basic tool.

Insects of Stored Products. CSIRO Publishing 144 pages. AU $59.95. By David Rees.
This concise yet comprehensive reference acts as both a field guide and a concise introduction to the major insect pests of stored products. Insect infestations in grains and other stored food and

fibre products cause annual losses worth many millions of dollars worldwide. This illustrated guide enables specialists and non-specialists to distinguish the major pests of durable stored products found throughout the world. It describes how to identify each pest group or species and summarises the latest information on their biology, ecology, geographical distribution, the damage they cause and their economic importance. Hundreds of colour photographs illustrate the identifying features of the most important beetles, moths, psocids, bugs and wasps found in stored products. Essential details on inspection and trapping are included to aid in the early detection of infestations, allowing more time to plan and undertake effective pest control. An extensive bibliography provides a convenient entry point to the specialised literature on these insects.

Evolution of Behavioural and Ecological Diversity: Australian *Acacia* Thrips as Model Organisms

Bernard J. Crespi, David C. Morris, Laurence A. Mound

with Botanical Annexe

Classification and Phylogeny of *Acacia*

Bruce R. Maslin

- This book presents a novel, 'model clades' approach to the study of biodiversification, explicitly integrating behaviour, ecology, taxonomy, phylogenetics, and evolution.
- The subjects comprise a single lineage of phytophagous thrips that has radiated on Australian Acacia, yielding over 250 species in 30 genera, of which 140 species and nine genera are newly described.
- This radiation has generated four ecological suites of species: gall-inducers (some with defensive 'soldier' castes); species that glue phyllodes together; parasites of these two types of domicile-formers; opportunistic species using old domiciles or other microhabitats.
- The causes and consequences are explored of this behavioral-ecological diversification, with special emphasis on how this study has provided insights into the evolution of social behaviour, of host-plant use, and of exploitative behaviours.
- The driving force behind the system is the arid and unpredictable Australian climate, which has selected for diverse means of creating, usurping, and co-opting domiciles. These ecological pressures have generated a positive feedback mechanism, such that adoption and modification of new host-plants by some thrips species creates further niches for additional ones.
- The remarkable morphological, behavioural and ecological variation represented by these thrips means that they can be considered as a microcosm for understanding the processes that generate biodiversity among all phytophagous insects, and indeed among all animals.

Hardback:
vi + 328 pages;
8 colour (27 figures);
420 black/white photomicrographs;
indexes to subjects, plants and insects.

Publishers:
Australian Biological Resources Study & Australian National Insect Collection, CSIRO, Canberra, Australia.

Price:
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AUSTRALIAN ENTOMOLOGICAL SOCIETY INCORPORATED

I,
of
Being a member of the above-named Society, hereby appoint

of
as my proxy to vote for me on my behalf at the Council meetings to be held on the 16th day of August 2004 and the 20th day of August 2004 and the Annual General meeting of the Society to be held on the 17th day of August 2004 and at any adjournment thereof.
Signed this day of 2004.

(Signature)

AUSTRALIAN ENTOMOLOGICAL SOCIETY INCORPORATED
Nomination of Officer or Councillor

I nominate .....

For election to the office of

.....

Name of nominator .....

Signature .....

Date .....

I second this nomination

Name of seconder .....

Signature .....

Date .....

I accept this nomination*

Signature .....

Date .....

*The nominee is requested to attach a typed statement not exceeding 300 words, which includes the following: professional qualifications, address, institution, position held, fields of entomological interest, previous offices or appointments held in the Society; any other information which may be of assistance to members.

Please send all nominations to Nancy Endersby, DPI, Private Bag 15, FERNTREE GULLY DELIVERY CENTRE VIC 3156 before Tuesday 20th July 2004.

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY INC.
NOMINATION FOR MEMBERSHIP

Please return to: Ms Nancy Endersby, AES Secretary, c/o Institute for Horticultural Development, Private Bag 15, Ferntree Gully Delivery Centre VIC 3156 AUSTRALIA

We, the undersigned

Proposer ..... (print name) (signature)

Seconder ..... (print name) (signature)

being financial members of the Society, propose the following for membership of the Australian Entomological Society Inc.

Title.....Initials.....Given name.....Family name.....

of (Address) .....

.....Post Code.....

Tel. .....Fax .....

E-mail ..... Degrees, etc. .....

Interests, experience and publications in entomology for publication in the News Bulletin *Myrmecia* (please attach brief resumé) .....

I accept nomination and undertake, if elected, to abide by the rules of the Society and to pay annual subscriptions by the date prescribed.

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For **2004**: Annual subscription $110.00 (incl. GST); Electronic Journal only plus paper of or electronic *Myrmecia* $99 (incl. GST) (payment MUST be received by 31 January 2004 if you choose this option); full-time student or retired members $55.00 (incl. GST), joint membership $115.50 (incl. GST).

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Payment in Australian dollars is required with nomination and may be made by MONEY ORDER, CHEQUE (made payable to Australian Entomological Society Inc.) or CREDIT CARD

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Signature _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _I require a receipt YES/ NO